

71913 YYQ Churchill Observations at 12Z 09 Feb 2015

PRES hPa	HGHT m	TEMP C	DWPT C	RELH %	MIXR g/kg	DRCT deg	SKNT knot	THTA K	THTE K	THTV K
1018.0	29	-29.7	-33.1	72	0.23	295	23	242.2	242.9	242.2
1017.0	36	-29.7	-34.7	62	0.20	295	24	242.3	242.8	242.3
1000.0	157	-30.7	-35.6	62	0.19	295	35	242.4	243.0	242.5
979.2	305	-31.8	-35.7	68	0.19	315	37	242.9	243.4	242.9
953.0	497	-33.1	-35.9	76	0.19	321	33	243.4	243.9	243.4
938.0	609	-31.5	-34.7	73	0.22	325	31	246.1	246.7	246.1
937.8	610	-31.5	-34.7	73	0.22	325	31	246.1	246.7	246.1
925.0	707	-32.3	-35.2	75	0.21	325	33	246.3	246.9	246.3
917.0	768	-32.7	-35.3	78	0.21	325	32	246.5	247.1	246.5
898.3	914	-32.3	-35.1	76	0.22	325	30	248.3	248.9	248.3
886.0	1011	-32.1	-35.0	75	0.22	323	34	249.5	250.2	249.6
860.5	1219	-30.0	-33.4	72	0.27	320	41	253.8	254.6	253.9
850.0	1306	-29.1	-32.7	71	0.29	320	46	255.7	256.5	255.7
800.0	1741	-26.5	-32.5	57	0.31	316	51	262.9	263.8	262.9
790.4	1829	-26.4	-33.1	53	0.30	315	52	263.9	264.8	263.9
759.0	2122	-26.1	-35.1	43	0.26	315	49	267.3	268.1	267.3
757.7	2134	-26.1	-35.1	42	0.26	315	49	267.4	268.2	267.5
726.5	2438	-26.4	-36.0	40	0.24	310	51	270.3	271.1	270.3
704.0	2665	-26.7	-36.7	38	0.24	310	54	272.4	273.2	272.5
700.0	2706	-27.1	-37.1	38	0.23	310	55	272.4	273.2	272.5
696.4	2743	-27.2	-37.2	38	0.23	310	56	272.7	273.4	272.7
619.0	3585	-30.7	-40.7	37	0.18	310	54	278.1	278.7	278.1
612.7	3658	-30.8	-40.8	37	0.18	310	54	278.8	279.3	278.8
586.0	3974	-31.3	-41.3	37	0.18	310	57	281.8	282.4	281.8
566.0	4220	-30.1	-48.1	16	0.09	310	60	286.0	286.3	286.0
562.3	4267	-30.2	-49.7	13	0.07	310	60	286.3	286.6	286.3
561.0	4283	-30.3	-50.3	12	0.07	310	60	286.5	286.7	286.5
515.4	4877	-35.5	-49.6	22	0.08	310	61	287.2	287.6	287.3
500.0	5090	-37.3	-49.3	28	0.09	310	58	287.5	287.8	287.5
489.0	5243	-38.5	-50.5	27	0.08	309	59	287.9	288.1	287.9
455.0	5737	-39.1	-64.1	5	0.02	307	62	293.1	293.2	293.1
431.5	6096	-40.9	-63.4	7	0.02	305	65	295.3	295.3	295.3
400.0	6610	-43.5	-62.5	10	0.02	300	69	298.4	298.5	298.4
394.0	6712	-43.7	-61.7	12	0.02	300	70	299.4	299.5	299.4
344.0	7617	-47.5	-71.5	5	0.01	300	76	306.1	306.1	306.1
343.9	7620	-47.5	-71.5	5	0.01	300	76	306.1	306.1	306.1
319.0	8115	-48.2	-73.4	4	0.01	300	79	311.8	311.8	311.8
313.5	8230	-48.4	-73.8	4	0.01	300	79	313.1	313.1	313.1

303.0	8455	-48.7	-74.7	3	0.01	300	77	315.7	315.7	315.7
300.0	8520	-48.7	-74.7	3	0.01	300	76	316.6	316.6	316.6
273.1	9144	-47.7	-75.7	3	0.00	300	73	326.7	326.7	326.7
250.0	9730	-46.7	-76.7	2	0.00	300	69	336.5	336.5	336.5
237.9	10058	-46.4	-77.6	2	0.00	290	71	341.7	341.7	341.7
217.0	10668	-45.9	-79.2	1	0.00	300	68	351.6	351.6	351.6
207.3	10973	-45.7	-80.0	1	0.00	305	67	356.6	356.6	356.6
201.0	11177	-45.5	-80.5	1	0.00	296	64	360.0	360.1	360.0
200.0	11210	-45.5	-80.5	1	0.00	295	64	360.6	360.6	360.6
197.9	11278	-45.6	-80.6	1	0.00	295	61	361.4	361.4	361.4
172.4	12192	-47.4	-81.9	1	0.00	290	71	373.0	373.0	373.0
157.2	12802	-48.6	-82.7	1	0.00	295	76	380.9	380.9	380.9
154.0	12937	-48.9	-82.9	1	0.00	297	75	382.7	382.7	382.7
150.0	13110	-48.3	-82.3	1	0.00	300	73	386.6	386.6	386.6
142.0	13471	-47.5	-82.5	1	0.00	301	72	394.1	394.1	394.1
128.0	14153	-49.1	-83.1	1	0.00	304	70	403.1	403.1	403.1
124.7	14326	-48.9	-83.1	1	0.00	305	69	406.6	406.6	406.6
113.6	14935	-48.0	-82.9	1	0.00	285	69	419.2	419.2	419.2
113.0	14971	-47.9	-82.9	1	0.00	286	69	420.0	420.0	420.0
108.5	15240	-49.2	-83.2	1	0.00	290	69	422.5	422.5	422.5
104.0	15515	-50.5	-83.5	1	0.00	293	66	425.1	425.1	425.1
100.0	15770	-50.1	-84.1	1	0.00	295	64	430.6	430.7	430.6
98.8	15850	-50.0	-84.0	1	0.00	295	64	432.3	432.3	432.3
89.1	16527	-49.5	-83.5	1	0.00	291	63	446.3	446.3	446.3
85.9	16764	-50.1	-83.9	1	0.00	290	63	449.6	449.6	449.6
78.3	17374	-51.8	-85.0	1	0.00	310	64	458.3	458.3	458.3
76.3	17540	-52.3	-85.3	1	0.00	307	63	460.7	460.7	460.7
70.0	18100	-51.7	-84.7	1	0.00	295	58	473.4	473.4	473.4
59.1	19202	-49.5	-83.5	1	0.01	295	58	501.7	501.8	501.7
58.9	19224	-49.5	-83.5	1	0.01	295	58	502.3	502.4	502.3
51.4	20117	-51.7	-84.8	1	0.01	310	58	517.3	517.4	517.3
50.0	20290	-52.1	-85.1	1	0.01	305	49	520.2	520.3	520.2
46.7	20726	-53.1	-85.5	1	0.01	320	52	527.9	528.0	527.9
45.0	20969	-53.7	-85.7	1	0.01	318	48	532.3	532.3	532.3
42.5	21336	-53.6	-85.7	1	0.01	315	42	541.4	541.4	541.4
38.7	21946	-53.3	-85.7	1	0.01	305	52	556.8	556.9	556.8
30.0	23580	-52.7	-85.7	1	0.01	330	52	600.4	600.5	600.4
29.8	23623	-52.9	-84.9	1	0.01	330	53	601.0	601.1	601.0
27.8	24079	-51.5	-84.3	1	0.01	335	58	617.1	617.2	617.1
25.3	24689	-49.6	-83.5	1	0.01	330	38	639.3	639.4	639.3
25.2	24714	-49.5	-83.5	1	0.01	330	38	640.2	640.3	640.2
23.0	25298	-50.5	-84.1	1	0.01	335	35	653.7	653.9	653.7
22.0	25603	-51.1	-84.4	1	0.01	320	38	660.9	661.1	660.9
20.5	26060	-51.9	-84.9	1	0.01	331	41	671.8	672.0	671.8
20.0	26220	-51.7	-84.7	1	0.02	335	42	677.2	677.3	677.2
17.4	27127	-50.1	-83.8	1	0.02	345	51	709.5	709.7	709.5

16.6	27432	-49.6	-83.5	1	0.02	0	36	720.7	720.9	720.7
14.5	28346	-48.0	-82.5	1	0.03	355	52	755.3	755.6	755.3
13.2	28956	-47.0	-81.9	1	0.04	10	34	779.3	779.7	779.3
13.1	28992	-46.9	-81.9	1	0.04	9	34	780.8	781.2	780.8
10.9	30175	-49.3	-83.4	1	0.03	340	46	813.2	813.7	813.3
10.6	30386	-49.7	-83.7	1	0.03	343	49	819.2	819.6	819.2
10.4	30480	-48.9	-83.1	1	0.04	345	50	825.6	826.1	825.6
10.0	30785	-46.2	-81.2	1	0.05	0	55	846.3	847.0	846.4
10.0	30770	-46.3	-81.3	1	0.05	355	56	845.6	846.3	845.6
9.5	31112	-45.1	-80.1	1	0.07	357	54	862.6	863.5	862.7
9.1	31394	-45.4	-80.4	1	0.07	355	53	871.9	872.8	872.0
8.5	31855	-45.9	-80.9	1	0.07	355	69	887.4	888.3	887.4
8.3	32004	-45.8	-80.8	1	0.07	355	74	893.3	894.3	893.4
7.0	33150	-45.3	-80.3	1	0.09	5	66	940.5	941.7	940.5
6.9	33223	-45.3	-80.3	1	0.09	5	66	943.3	944.6	943.3
6.6	33528	-45.5	-80.5	1	0.09	5	73	955.2	956.5	955.2
6.5	33644	-45.5	-80.5	1	0.09	5	75	959.7	961.1	959.8
6.3	33833	-44.4	-79.7	1	0.11	5	78	972.0	973.6	972.0
5.5	34747	-39.2	-76.0	1	0.23	350	72	1033.0	1036.4	1033.2
5.0	35430	-35.3	-73.3	1	0.38	0	80	1080.8	1086.6	1081.0
5.0	35357	-35.7	-73.6	1	0.36	0	81	1075.6	1081.1	1075.8
4.7	35862	-34.3	-73.3	1	0.40	8	79	1104.7	1111.0	1105.0
4.6	36012	-34.7	-73.7	1	0.39			1109.6	1115.8	1109.9
4.6	35966	-34.6	-73.6	1	0.39	10	79	1108.1	1114.3	1108.4

Station information and sounding indices

Station identifier: YYQ

Station number: 71913

Observation time: 150209/1200

Station latitude: 58.73

Station longitude: -94.08

Station elevation: 29.0

Showalter index: 25.48

Lifted index: 36.24

LIFT computed using virtual temperature: 36.25

SWEAT index: 150.00

K index: -34.50

Cross totals index: 4.60

Vertical totals index: 8.20

Totals totals index: 12.80

Convective Available Potential Energy: 0.00

CAPE using virtual temperature: 0.00

Convective Inhibition: 0.00

CINS using virtual temperature: 0.00

Bulk Richardson Number: 0.00
Bulk Richardson Number using CAPV: 0.00
Temp [K] of the Lifted Condensation Level: 236.88
Pres [hPa] of the Lifted Condensation Level: 917.14
Mean mixed layer potential temperature: 242.82
Mean mixed layer mixing ratio: 0.19
1000 hPa to 500 hPa thickness: 4933.00
Precipitable water [mm] for entire sounding: 1.16

Description of the [data columns](#) or [sounding indices](#).

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Questions about the weather data provided by this site can be addressed to [Larry Oolman \(ldoolman@uwyo.edu\)](mailto:ldoolman@uwyo.edu)
